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(71) Applicant (for all designated States except US): ATTANA
AB [SE/SE]; Björnåsvägen 21, S-113 47 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): AASTRUP, Teodor
[SE/SE]; Grubbensringen 33, S-112 69 Stockholm (SE).
SMITH, Jan [SE/SE]; Ringvägen 88, S-118 60 Stockholm
(SE). ANDERSON, Henrik [SE/SE]; Tulegatan 70, S-172
72 Sundbyberg (SE).

(74) Agents: ALBIHNS STOCKHOLM AB et al.; Box 5581,
S-114 85 Stockholm (SE).

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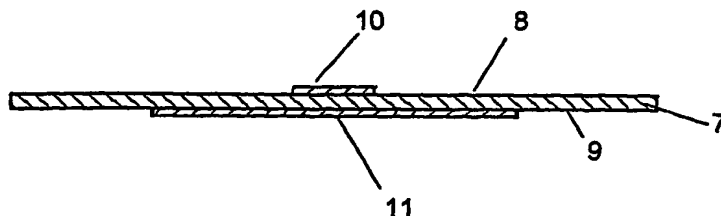
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(54) Title: PIEZOELECTRIC RESONATOR



(57) Abstract: A piezoelectric resonator for use in a
sensor arrangement for detecting or measuring an an-
alyte in a medium, comprises a quartz crystal plate,
having a first crystal surface and a second crystal sur-
face. The first crystal surface is provided with a first
electrode, which has a surface area of less than 15
mm² and the second crystal surface is provided with
a second electrode. The first electrode may have a
rectangular surface shape. A flow cell for use in an

apparatus for detecting or measuring an analyte in a medium, comprises walls that form a sensing chamber together with the
resonator, and inlet and outlet openings for leading a fluid through the sensing chamber. A part of the resonator constitutes one of the
walls of the sensing chamber and is arranged such that the first electrode is situated inside the sensing chamber.

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